UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	926 010 10	<u>იუ 7 ?Ո</u>
a.	Type of Work 2003 (100 16	5. Lease Number
	DRILL	NMSF-078135
	KECI	Unit Reporting Number
	0.000	PART AND
b.	Type of Well	6. If Indian, All. or Tribe
	GAS	N.
		<i>47</i> 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
2.	Operator (Carlotte Landson)	7. Unit Agreement Name
	BURLINGTON AUG ANG ANG ANG	$f \in \mathcal{F}_{p}$
	RESOURCES Oil & Gas Company	∽\ Huerfanito Unit
		<u></u>
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	(9)
		⊖. ∀ 9. Well Number
	(505) 326-9700	€ #103E
		5 ²
١.	Location of Well	10. Field, Pool, Wildcat
	Unit E (SWNW), 1640' FNL, 1140' FWL	Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 31.2012'N	Sec. 3, T26N, R9W
	Longitude 1070 46.8299'W	
		API# 30-045- <i>33</i> 896
		550 P
14.	Distance in Miles from Nearest Town	12. County 13. State
	25.4 miles to Bloomfield, NM	San Juan NM
15.	Distance from Proposed Location to Nearest Property or Leas	e Line
	1140'	
16.	Acres in Lease	17. Acres Assigned to Well
		320.89 W2
18.	Distance from Proposed Location to Nearest Well, Drlg, Com	pl, or Applied for on this Lease
	53'- Huerfanito Unit #20-3	
19.	Proposed Depth	20. Rotary or Cable Tools
	6751'	Rotary
	Flourations (DE ET CD Etc.)	22 American Des Marie III Cons
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6416'GL	
23.	Proposed Cosing and Competing Proposed	
ن5.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
14	Authorized by	8-15. NI-
24.	Authorized by: Amanda Janak	010-00
	Regulatory Analyst	Date
		
CDssr	T NO	N DATE
PERMIT	T NO. APPROVA	AL DATE
	VED BY Male 12 TITLE A	EN DATE \$/24/
\ DDD∧	VED DI //////////////////////////////////	VAIL X/X7/
APPRO		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

NMOCD

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

45

DISTRICT IV

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, N.M. 87410

1220 S. St. Francis Dr., Santa Fe, NM 67505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code 71599	Basin Dakota	
8:1	Property Name	⁶ Well Number
HUERE	FANITO UNIT	103E
• (Operator Name	* Elevation
BURLINGTON RESOURCE	6416	
	HUER BURLINGTON RESOURCE	Property Name HUERFANITO UNIT Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP

10 Curtons Insetion

T.	1/2 320	.89 ac.							
² Dedicated Acre	98	L	18 Joint or	Infill	" Consolidation	ode	¹⁸ Order No.	<u> </u>	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
			11 Bott	om Hole		f Different Fro			
E	3	26-N	9-W		1640'	NORTH	1140'	WEST	SAN JUAN
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
					Surrace	Location			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LO7	1 4 .091	N 89 49' 24" E 2639.61' LOT 3	LOT 2	LOT 1	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organisation either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntury pooling agreement or a compulsory pooling order heretofore entered by the division.
114	40'	LAT: 36'31.2012' N. LONG: 107'46.8299' W. NAD 1927 LAT: 36'31'12.1" N. LONG: 107'46'52.0" W. NAD 1983			Signature Joni Clark Printed Name
	USA	SF-078135	3		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my beltaf. Date of Survey
					Signature sign Self of Professional Surveyor:

Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103
District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 30-045- 33896
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
District IV	, , , , , , , , , , , , , , , , , , , ,	
1220 S. St. Francis Dr., Santa Fe, NM 87505	AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO I		7. Lease Ivaine of Olite Agreement Ivaine
DIFFERENT RESERVOIR. USE "APPLICATION FO	OR PERMIT" (FORM C-101) FOR SUCH	Huerfanito Unit
PROPOSALS.) 1. Type of Well:		8. Well Number
	her	#103E
2. Name of Operator		9. OGRID Number
	CES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
3. Address of Operator 3401 E. 30TH STREET	, FARMINGTON, NM 87402	Basin Dakota
4. Well Location		
Unit Letter <u>E</u> : <u>1640</u>		1140' feet from the West line
Section 3	Township 26N Range 91 ation (Show whether DR, RKB, RT, GR, etc.)	V NMPM County San Juan
	6416'	
Pit or Below-grade Tank Application or	Closure	> <i>100</i> (
Pit type New Drill Depth to Groundwater	>100' Distance from nearest fresh water well	>1000' Distance from nearest surface water <1000'
Pit Liner Thickness: 12 mi	Below-Grade Tank: Volume	bbls; Construction Material
12. Check App	propriate Box to Indicate Nature of No	otice, Report or Other Data
NOTICE OF INTE	NTION TO:	SUBSEQUENT REPORT OF:
	Land L	AL WORK ALTERING CASING
TEMPORARILY ABANDON CI	HANGE PLANS	NCE DRILLING OPNS. P AND A
	[7] [··
PULL OR ALTER CASING M	ULTIPLE COMPL CASING	CEMENT JOB
PULL OR ALTER CASING M OTHER: New Dril		CEMENT JOB
OTHER: New Dril 13. Describe proposed or completed or	OTHER: Derations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date
OTHER: New Dril 13. Describe proposed or completed or of starting any proposed work). Sl	I X OTHER:	give pertinent dates, including estimated date
OTHER: New Dril 13. Describe proposed or completed or	OTHER: Derations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date
OTHER: New Dril 13. Describe proposed or completed or of starting any proposed work). Sl	OTHER: Derations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date
OTHER: New Dril 13. Describe proposed or completed or of starting any proposed work). Sl	OTHER: Derations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date
OTHER: New Dril 13. Describe proposed or completed or of starting any proposed work). Sl	OTHER: Derations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date
OTHER: New Dril 13. Describe proposed or completed or of starting any proposed work). SI or recompletion.	OTHER: Derations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date
OTHER: New Dril 13. Describe proposed or completed or of starting any proposed work). Sl	OTHER: Derations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date
OTHER: New Dril 13. Describe proposed or completed or of starting any proposed work). Sl or recompletion. New Drill, Lined:	OTHER: Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Att	give pertinent dates, including estimated date
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construction of the starting any proposes to construction.	OTHER: Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Att act a new drilling pit and an associated vent/flare of drilling pit will be a lined pit as detailed in Bu	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the lington's Revised Drilling / Workover Pit Construction /
OTHER: New Drill 13. Describe proposed or completed of of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construction of the proposed work of	OTHER: Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Att act a new drilling pit and an associated vent/flare of drilling pit will be a lined pit as detailed in Bu 1, 2004 on file at the NMOCD office. A portion	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sloor recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk resources.	Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Attact a new drilling pit and an associated vent/flar v drilling pit will be a lined pit as detailed in Burling or teria. Burlington Resources anticipat	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the lington's Revised Drilling / Workover Pit Construction /
OTHER: New Drill 13. Describe proposed or completed of of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construction of the proposed work of	Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Attact a new drilling pit and an associated vent/flar v drilling pit will be a lined pit as detailed in Burling or teria. Burlington Resources anticipat	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sloor recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk resources.	Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Attact a new drilling pit and an associated vent/flar v drilling pit will be a lined pit as detailed in Burling or teria. Burlington Resources anticipat	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sloor recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk resources.	Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Attact a new drilling pit and an associated vent/flar v drilling pit will be a lined pit as detailed in Burling or teria. Burlington Resources anticipat	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sloor recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk resources.	Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Attact a new drilling pit and an associated vent/flar v drilling pit will be a lined pit as detailed in Burling or teria. Burlington Resources anticipat	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sloor recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk resources.	Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Attact a new drilling pit and an associated vent/flar v drilling pit will be a lined pit as detailed in Burling or teria. Burlington Resources anticipat	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and
OTHER: New Drill 13. Describe proposed or completed of of starting any proposed work). Slad or recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk repit Closure Procedure dated August 2, 20	Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Attact a new drilling pit and an associated vent/flare vertilling pit will be a lined pit as detailed in But 1, 2004 on file at the NMOCD office. A portion anking criteria. Burlington Resources anticipate 1004 on file at the NMOCD office	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the diagram's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and es closing these pits according to the Drilling / Workover
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk repit Closure Procedure dated August 2, 20. I hereby certify that the information above in the procedure of the proce	Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Attact a new drilling pit and an associated vent/flare vertilling pit will be a lined pit as detailed in But 1, 2004 on file at the NMOCD office. A portion anking criteria. Burlington Resources anticipate 2004 on file at the NMOCD office.	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the dington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and es closing these pits according to the Drilling / Workover and belief. I further certify that any pit or below-
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk repit Closure Procedure dated August 2, 20. I hereby certify that the information above it grade tank has been/will be constructed or closed according to the procedure of the procedure	Deterations. (Clearly state all pertinent details, and EE RULE 1103. For Multiple Completions: Attact a new drilling pit and an associated vent/flare vertilling pit will be a lined pit as detailed in But 1, 2004 on file at the NMOCD office. A portion anking criteria. Burlington Resources anticipate 1004 on file at the NMOCD office	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the dington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and es closing these pits according to the Drilling / Workover and belief. I further certify that any pit or below-
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk repit Closure Procedure dated August 2, 20. I hereby certify that the information above it grade tank has been/will be constructed or closed according to the procedure of the procedure	Deterations. (Clearly state all pertinent details, and the set of my knowledge cording to NMOCD guidelines , a general permit	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and es closing these pits according to the Drilling / Workover and belief. I further certify that any pit or beloward or an (attached) alternative OCD-approved plan .
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk repit Closure Procedure dated August 2, 20 I hereby certify that the information above it grade tank has been/will be constructed or closed action. SIGNATURE	Detail X OTHER: Detail of the pertinent details, and the pertinent details, and the pertinent details, and the pertinent details. At the pertinent details, and the pertinent details, and the pertinent details, and the pertinent details. At the pertinent details, and the pertinent details, a	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and es closing these pits according to the Drilling / Workover and belief. I further certify that any pit or below- X or an (attached) alternative OCD-approved plan egulatory Analyst DATE
OTHER: New Drill 13. Describe proposed or completed of of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk repit Closure Procedure dated August 2, 20 I hereby certify that the information above is grade tank has been/will be constructed or closed actions. SIGNATURE Type or print name Joni Classical Signature of the proposed of the proposed actions are provided to the proposed action.	Detail X OTHER: Detail of the pertinent details, and the pertinent details, and the pertinent details, and the pertinent details. At the pertinent details, and the pertinent details, and the pertinent details, and the pertinent details. At the pertinent details, and the pertinent details, a	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and es closing these pits according to the Drilling / Workover and belief. I further certify that any pit or beloward or an (attached) alternative OCD-approved plan .
OTHER: New Drill 13. Describe proposed or completed or of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk repit Closure Procedure dated August 2, 20 I hereby certify that the information above it grade tank has been/will be constructed or closed action. SIGNATURE	DOTHER: Deterations. (Clearly state all pertinent details, and the set at the NMOCD office. A portion anking criteria. Burlington Resources anticipate 2004 on file at the NMOCD office. Strue and complete to the best of my knowledge cording to NMOCD guidelines, a general permit	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e. pit. Based on Burlington's interpretation of the lington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and es closing these pits according to the Drilling / Workover and belief. I further certify that any pit or below- X or an (attached) alternative OCD-approved plan egulatory Analyst DATE
OTHER: New Drill 13. Describe proposed or completed of of starting any proposed work). Sl or recompletion. New Drill, Lined: Burlington Resources proposes to construct Ecosphere's risk ranking criteria, the new Operation Procedures dated November 1 that portion will be lined as per the risk repit Closure Procedure dated August 2, 20 I hereby certify that the information above is grade tank has been/will be constructed or closed actions. SIGNATURE Type or print name Joni Classical Signature of the proposed of the proposed actions are provided to the proposed action.	DOTHER: Deterations. (Clearly state all pertinent details, and the set at the NMOCD office. A portion anking criteria. Burlington Resources anticipate 2004 on file at the NMOCD office. Strue and complete to the best of my knowledge cording to NMOCD guidelines, a general permit	give pertinent dates, including estimated date ach wellbore diagram of proposed completion e pit. Based on Burlington's interpretation of the clington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and es closing these pits according to the Drilling / Workover and belief. I further certify that any pit or below- X or an (attached) alternative OCD-approved plan egulatory Analyst DATE

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
BLOW PIT: OVERFLOW PIPE 4' ABOVE BOTTOM OF BLOW PIT.

EXISTING ACCESS 50' CONSTRUCTION ZONE EXISTING ACCES 130' 8 230' X 300 130 **35**′ Wellhead to side 330' X 400' = 3.03 ACRES MONOWAN 130'

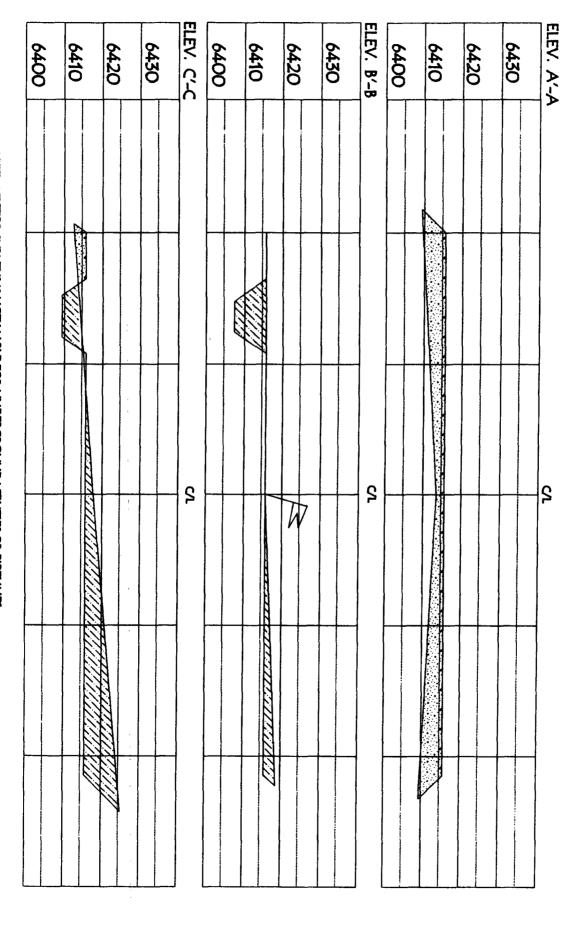
NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

ATITUDE: 36° 31.2012'N LONGITUDE: 107' 46.8299'W NAD27

BURLINGTON RESOURCES OIL & GAS COMPANY LP HUERFANITO UNITIO3E, 1640' FNL & 1140' FWL SECTION 3, T-26- N, R-9-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6416', DATE: MAY 22, 2006



PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

OPERATIONS PLAN

Well Name: Huerfanito Unit #103E

Location: 1640'FNL, 1140' FWL, Section 3, T-26-N, R-09-W

San Juan County, New Mexico

Latitude 36° 31.2012', Longitude 107° 46.8299'

Formation: Basin Dakota

Elevation: 6416'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1349′	
Ojo Alamo	1349′	1422'	aquifer
Kirtland	1422'	1999'	gas
Fruitland	1999′	2162'	
Pictured Cliffs	2162'	2271'	gas
Lewis	2271'	2605′	gas
Huerfanito Bentonite	2605′	3058′	gas
Chacra	3058′	3728'	gas
Cliff House	3728′	3813′	
Menefee	3813′	4503′	gas
Point Lookout	4503'	4816′	gas
Mancos	4816'	5629'	gas
Gallup	5629'	6454'	gas
Greenhorn	6454'	6505'	gas
Graneros	6505'	6531'	gas
Two Wells	6531′	6623′	
Paguate	6623′	6683′	
Cubero	6683′	6689′	
Encinal	6689′	6751′	gas
TD	6751′		-

Logging Program:

Mud Logs/Coring/DST -

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray - surface to TD

Mud Program:

Interval	Type	Weight	<u>Vis.</u>	Fluid Loss
0- 300'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
300'- 6751'	LSND	8.4-9.0	30-60	no control

Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval	Csg.Size Wt.	Grade
12 1/4"	0' - 300'	8 5/8" 24.0#	J-55
7 7/8"	0' - 6751'	4 1/2" 10.5#	J-55

Tubing Program: 0' - 6751' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

8 5/8" x 4 $\frac{1}{2}$ " x 2 3/8" x 2000 psi tree assembly.

General

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

8 5/8" surface casing conventionally drilled Cement with 321 sacks Type III cement with 0.25 pps Celloflake, 3% calcium chloride.
(200% excess, bring cement to surface). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE.
Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

4 1/2" Production Casing Two Stage
Stage collar set @ 4353'. First Stage: Lead with w/264 sacks Premium Lite HS FM cmt
w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. Second Stage: 470
sacks Premium Lite cmt w/3% calcium chloride, 0.4% metasilicate, 0.25 pps celloflake,
5 pps LCM-1 and 0.4% FL-52. (2276 cu ft - 50% excess, circulate to surface, run
CBL/temperature survey if cement is not circulated to surface.)

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every fourth joint off bottom, to the base of the Ojo Alamo @ 1422'. Two turbolating centralizers at the base of the Ojo Alamo 1422'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.

Special Drilling Operations (Air/Mist Drilling):

- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Dakota formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi Pictured Cliffs 600 psi Mesa Verde 700 psi Dakota 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of Section 3 is dedicated to the Dakota formation.
- This gas is dedicated.

Deilling Engineer Date

BURLINGTON RESOURCES

Completion/Workover Rig BOP Configuration 2,000 pai System

Burlington Resources

2000 psi System **Drilling Rig**

Drilling Rig Choke Menifold Configuration 2000 pel System

Ž

K 🛇 🖁

Cincate Cate SCP

HOMATHIG HEADS

FLOW IMPRILIBATION LINE

EMT-M-THE

BOAR STRANGE

DAIN GENTOED

CHOKE INVISORO & BYOM ALL

Point to Total Depth. 2,000pal working pressure letton from Burtace Casing

Figure #3

equipment with two chokes.

Minimum BOP installation for all Completion/Workover

pipe rame. A stripping head to be installed on the top of Operations. 7-1/16" bors, 2000 pel minimum working essure double gate BOP to be equipped with blind and

Figure #2

he BOP. All BOP equipment is 2000 pel working ure or greater excluding 600 pel stripping head.

4-20-01

Figure #1

=

4-20-01